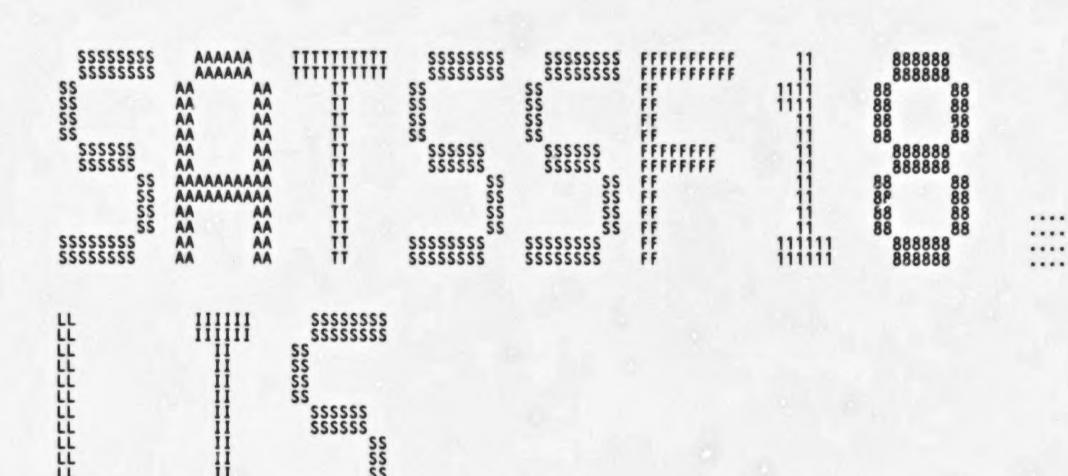
UUU	UUU	EEEEEEEEEEEEE		PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	PP
UUU	UUU	EEEEEEEEEEEEE	TTTTTTTTTTTTTTT	PPPPPPPPP	
UUU	UUU	EEE	III	PPP	PPP
UUU	UUU	EEE	TTT	PPP	PPP
UUU	UUU	EEE	TTT	PPP	PPP
UUU	UUU	ĒĒĒ EĒĒ ĒĒĒ	TTT	PPP	PPP
UUU	UUU	EEE	TTT	PPP	PPP
UUU	UUU	EEE	ŤŤŤ	PPP	PPP
UUU	UUU	EEEEEEEEEE	ŤŤŤ	PPPPPPPPP	
UUU	UUU	EEEEEEEEEEE	ŤŤŤ	PPPPPPPPPP	
UUU	ŬŬŬ	EEEEEEEEEEE	ŤŤ	PPPPPPPPPP	
UUU	ŬŬŬ	EEE	ŤŤŤ	PPP	
ŬŬŬ	ŬŬŬ	ĒĒĒ	ŤŤŤ	PPP	
ÜÜÜ	ÜÜÜ	ĒĒĒ	ttt	PPP	
UUU	UUU	ĒĒĒ	ttt	PPP	
UUU	UUU	ĒĒĒ	tit	PPP	
UUU	UUU	EEE	tit		
		EEEEEEEEEEEE		PPP	
UUUUUUU		EEEEEEEEEEEEE	III	PPP	
UUUUUUU		EEEEEEEEEEEE	III	PPP	
UUUUUUUU	UUUUUUUU	EEEEEEEEEEEEE	TTT	PPP	

Va 000 000 7F1 7F1 7F1 7F1 7F1 7F1 7F1



	SA VO
	VO
	1 40

0

Page

SATSSF18
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- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 01:42:11 VAX/VMS Macro V04-00

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```
.TITLE SATSSF18 - SATS SYSTEM SERVICE TESTS (FAILING S.C.)
```

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FACILITY: SATS SYSTEM SERVICE TESTS

ABSTRACT: The SATSSF18 module tests the execution of the following VMS system services, invoked in such a way as to expect failing status codes:

SCREPRC SSETPRV SUNWIND

ENVIRONMENT: User mode image; needs CMKRNL privilege, dynamically acquires other privileges, as needed.

AUTHOR: Larry D. Jones,

CREATION DATE: NOVEMBER, 1979

MODIFIED BY:

V03-005 LDJ0005 Larry D. Jones, 23-Jul-1984 Modified for addition of one rew status flag.

V03-004 LDJ0004 Larry D. Jones, 19-Apr-1984 Modified for addition of one new status flag. Fixed duplicate process name failure.

V03-003 LDJ0003 Larry D. Jones, 25-Mar-1983 Modified for addition of three new status flags.

V03-002 LDJ0002 Larry D. Jones, 07-Aug-1981

14

16

Modified for addition of disable WS adjust status flag. V03-001 LDJ0001 Larry D. Jones, 17-Sep-1980 Modified to conform to new build command procedures.

```
.SBTTL DECLARATIONS
                                     MACRO LIBRARY CALLS
                                               SCHFDEF
SJPIDEF
                                                                                                       condition handler frame offsets
GETJPI definitions
                                              $PQLDEF

$PRVDEF

$PRVDEF

$UETPDEF

$UETP message definitions

$SFDEF

$SHR MESSAGES UETP,116,<<TEXT,INFO>>; UETP$_TEXT_definition

$SSDEF

$STSDEF

$STSDEF

$STS definitions
                                  : Equated symbols
                0000
0000
0000
0000
0000
0000
00000000
00000001
00000002
00000003
00000004
00000001
                                  WARNING
                                                                                                    ; warning severity value for msgs
                                  SUCCESS
                                                            = 1
                                                                                                      success
                                                                                                                                                     ..
                                                            = 2
                                                                                                       error
                                                                                                       information "
                                                                                                                                                     ..
                                  INFO
                                  SEVERE
                                                            = 4
                                                                                                    : fatal
                                  PRVHND_SXV40
                                                            = 1
                                                                                                    ; page 0 address for SETEXV
```

```
SA
```

```
- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 01:42:11 5-SEP-1984 04:22:29
SATSSF18
V04-000
                                                                       OWN STORAGE
RODATA, RD, NOWRT, NOEXE, LONG
                                     000000
                                                     TEST_MOD_NAME:
          38 31 46 53 53 54 41 53 00'
                                                                       /SATSSF18/
                                                                                                  ; needed for SATSMS message
                                                     TEST_MOD_NAME_D: .ASCID /SATSSF18/
46 53 53 54 41 53 00000011 010E0000
                                                                                                  : module name
                                                  96 TEST_MOD_BEGIN:
97 .ASCIC /begin/
                    6E 69 67 65 62 00
                                                     TEST_MOD_SUCC:
   60 75 66 73 73 65 63 63 75 73 00
                                                                       /successful/
                                                 100 TEST_MOD_FAIL:
101 ASCIC
                64 65 60 69 61 66 00
                                                                      /failed/
                                                     CREPRC:
                 43 52 50 45 52 43 00'
                                                              .ASCIC /CREPRC/
                                                 104 SETPRV:
                 56 52 50 54 45 53 00
                                                               .ASCIC /SETPRV/
                                                     UNWIND:
                44 4E 49 57 4E 55 00°
                                                               .ASCIC /UNWIND/
                                                 108 INADR:
                    00000000,000000000
                                                               . LONG
                                                                       NOACCESS, NOACCESS
                                                                                                  ; page address of neaccess psect
                                                     PROT:
                                                 110
                              00000000.
                                                     PRVHND_SXV41:
                                                                       PRTSC_NA
                                                                                                  ; protection code for no access psect ; read only access location
                                                     CS1:
                                                               .ASCID \Test !AC service name !AC step !UL failed.\
                                                 115 CS2:
                                                              .ASCID \Expected !AS = !XL received !AS = !XL\
                                                 117 CS3:
                                                               .ASCID \Expected !AS!UB = !XL received !AS!UB = !XL\
                                                 119 EXP:
73 75 74 61 74 73 000000EC'010E0000'
                                                               ASCID \status\
                                                     NAME_CREO:
                                                                                                  ; 0 length string
                    000000FA'010E0000'
                                                               ASCID \\
                                                                                                  : 16 length string
                                                                       \ABCDEFGHIJKLMNOP\
                                                                                                  ; illegal quota list
```

```
- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 01:42:11 OWN STORAGE 5-SEP-1984 04:22:29
SATSSF18
V04-000
                                                               .SBTTL
.PSECT
                                                                       R/W PSECT
RWDATA, RD, WRT, NOEXE, LONG
                                     000000
                                                     TPID:
                              00000000
                                                               .LONG
                                                                                                  : PID for this process
                                                     PID1:
                              00000000
                                                                LONG
                                                                                                  ; PID for target process
                                                      CURRENT_TC:
                              00000000
                                                               . LONG
                                                                                                  ; ptr to current test case
                                                                ALIGN
                                                                      LONG
                                                     REG_SAVE_AREA:
                              00000048
                                                                       15
                                                                                                  ; register save area
                                                     MOD_MSG_CODE:
                              007480D9
                                                               LONG
                                                                       UETPS_SATSMS
                                                                                                  ; test module message code for putmsq
                                                      TMN_ADDR:
                              00000000
                                                               .ADDRESS TEST_MOD_NAME
                                                     TMD_ADDR:
                              000000191
                                                               .ADDRESS TEST_MOD_BEGIN
                                                     PRVPRT:
                                                               .BYTE
                                                                                                  ; protection return byte for SETPRT
                                                     PRIVMASK:
                    00000000 00000000
                                                               QUAD
                                                                                                  : priv. mask
                                                     CHM_CONT:
                              00000000
                                                               . LONG
                                                                                                  : change mode continue address
                                                 191
192
193
194
195
                                                     RETADR:
                              00000069
                                                               .BLKL
                                                                                                  : returned address's from SETPRT
                                                     CRE:
                                                              SCREPRC 0,0,0
                                                                                                  : CREPRC parameter list
                                                     SET:
                                                 196
197
198
199
                                                              SSETPRY 0,0,0
                                                                                                  ; SETPRV parameter list
                                                     UNW:
                                                              SUNWIND 0.0
                                                                                                  ; UNWIND parameter list
                                                     REG:
200
                                                              .ASCID \register R\
                                                     REGNUM:
                              00000000
                                                               .LONG
                                                                                                  ; register number
                                                     MSGL:
                              00000050
000000DF
                                                               . LONG
                                                                                                  : buffer desc.
                                                               . ADDRESS BUF
                                                     BUF:
                              0000012F
                                                               BLKB
                                                     MESSAGEL:
                              00000000
000000DF
                                                               .LONG
                                                                                                  ; message desc.
                                                                ADDRESS
                                                                                BUF
                                                     SERV_NAME:
                              00000000
                                                               . LONG
                                                                                                  ; service name pointer
                                                     PRIVS:
                    00000000 00000000
                                                               DAUP.
                                                                                                  : privilege storage location
                                                     DEPTH:
                              00000000
                                                               . LONG
                                                                                                  ; depth storage location for UNWIND
                                                     WORK:
                              00000000
                                                               . LONG
                                                                                                  ; scratch storage location for UNWIND
```

```
00000200 0000
                                            .PSECT SATS ACCVIO_1,RD,WRT,NOEXE,PAGE
.BLKB 512 ; reserve a page
                               EMPTY:
                                                                              : reserve a page of space
                                           THE ORDER OF STATEMENTS IN THIS PSECT IS CRITICAL.
DO NOT RE-ARRANGE THE VARIABLES. CONSULT SATS
FUNCTIONAL SPECIFICATION FOR A DESCRIPTION OF THE USE
                                            OF THE EMPTY PSECT (AND ITS COMPANION PSECT, NOACCESS).
000001FF
                               PRVHND_SXV42
                                                                                ; pryhnd arg for SETEXV (last byte in the page)
000001F3
                                                          = . - 13
                                                                                ; allow room for string descriptor
                               ; type AAAAA_SSSX5 go here:
00000006
000001FB
                                                                               : string length (will cross psect boundary)
                                                         ADDRESS .+4
                                                                                ; string address
                               ; type AAAAA_SSSX3 go here:
000001FC
                                                                                ; low-order byte of string length
                                  type AAAAA_SSSX2 go here:
00000200
                                                                                : string length
                                                       SATS ACCVID_2,RD,WRT,NOEXE,PAGE
.BLKB 512 : reserve a page
.= . - 512 : return loc ctr
         0000000
                                            .PSECT
00000200
                               NOACCESS:
                                                                                  reserve a page of space
0000000
                                                       .=. - 512 ; return loc ctr to beginning of psect
.ADDRESS EMPTY ; address of accessible string
.ADDRESS EMPTY/*X100 ; address of accessible string
000000000
                                  *** NOTE -- DO NOT CHANGE LOCATION OR SEQUENCE OF ABOVE STATEMENTS!

*** THIS PSECT (NOACCESS) MUST APPEAR IN MEMORY IMMEDIATELY

FOLLOWING THE EMPTY PSECT. PSECT NAMES AND OPTIONS WILL BE
                                                    CHOSEN TO FORCE THE DESIRED PSECT ORDERING.
```

```
- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 01:42:11 R/W PSECT 5-SEP-1984 04:22:29
                                                                                                                  VAX/VMS Macro V04-00
[UETP.SRC]SATSSF18.MAR;1
  00000000
                                            .PSECT SATSSF18, RD, WRT, EXE, LONG .SBTTL SATSSF18
         FUNCTIONAL DESCRIPTION:
                                After performing some initial housekeeping, such as printing the module begin message and acquiring needed privileges, the system services are tested in each of their failure conditions. Detected failures are identified and an error message is printed on the terminal. Upon completion of the test a success or fail message is printed on the terminal.
                                 CALLING SEQUENCE:
                                           $ RUN SATSSF18 ... (DCL COMMAND)
                                 INPUT PARAMETERS:
                                           none
                                 IMPLICIT INPUTS:
                                           none
                                 OUTPUT PARAMETERS:
                                           none
                                IMPLICIT OUTPUTS:
                                            Messages to SYS$OUTPUT are the only output from SATSSF18.
                                           They are of the form:
                                                          XUETP-S-SATSMS, TEST MODULE SATSSF18 BEGUN ... (BEGIN MSG)
XUETP-S-SATSMS, TEST MODULE SATSSF18 SUCCESSFUL ... (END MSG)
XUETP-E-SATSMS, TEST MODULE SATSSF18 FAILED ... (END MSG)
XUETP-I-TEXT, ... (VARIABLE INFORMATION ABOUT A TEST MODULE FAILURE)
                                COMPLETION CODES:
                                           The SATSSF18 routine terminates with a $EXIT to the
                                           operating system with a status code defined by UETP$_SATSMS.
                                SIDE EFFECTS:
                                           none
```

; let the test begin

TEST_START SATSSF18

(1)

Page

```
SATSSF18
v04-000

- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 01:42:11 VAX/VMS Macro V04-00 SATSSF18

- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 01:42:11 VAX/VMS Macro V04-00 SATSSF18 OCCURED. SATSSF18.MAR;1

- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 01:42:11 VAX/VMS Macro V04-00 SATSSF18.MAR;1

- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 01:42:11 VAX/VMS Macro V04-00 SATSSF18.MAR;1

- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 01:42:11 VAX/VMS Macro V04-00 SATSSF18.MAR;1

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- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 01:42:11 VAX/VMS Macro V04-00 SATSSF18.MAR;1

- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 01:42:11 VAX/VMS Macro V04-00 SATSSF18.MAR;1

- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 04:22:29 [LETP.SET] SATSSF18.MAR;1

- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 04:22:29 [LETP.SET] SATSSF18.MAR;1

- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 04:22:29 [LETP.SET] SATSSF18.MAR;1

- SATS SYSTEM SETVICE TESTS (FAILING S. 16-SEP-1984 04:22:29

- CALLS W. 16-SEP-198
```

			0056 319 0056 320 0056 321 0056 323 0056 323	ERVICE TESTS (FAILING S. 16-SEP-1984 01:42:11 VAX/VMS Macr 5-SEP-1984 04:22:29 [UETP.SRC]SA .SBTTL CREPRC TESTS .** \$CREPRC tests test unaccessable PIDADR = page 0 access	TSSF18.MAR;1 (2
137'CF 0031		DE	0056 325 0056 326 0056 327 0050 328 0081 329	MOVAL W^CREPRC, W^SERV_NAME : set servi \$CREPRC S PIDADR = W^PRVHND_SXV40 : try it FAIL CHECK SS\$ ACCVIO : check fai	
0735°CF	0¢ 01	DD FB	0056 0056 0056 0056 0081 0081 0083 0088 0088 0088 0088 0088	PUSHL #SS\$ ACCVIO CALLS #1,W*REG_CHECK test unaccessable PIDADR = read-only psect	
0008'CF 0728'CF	01 00 01	DO DD FB	0088 0088 0088 008D 008F 0094 336	STP1: MOVL #1,W^CURRENT_TC PUSHL #0 CALLS #1,W^REG_SAVE \$CREPRC_S PIDADR = W^PRVHND_SXV41 ; try it FAIL_CHECK_SS\$_ACCVIO ; check_fai	
0735°CF	0C 01	DD FB	00B8 00BA 00BF 338 00BF 340 00BF 341 00BF 342	CALLS #1,W*REG_CHECK test unaccessable PIDADR = noaccess protect	Care
0008°CF	02 00 01	D0 DD F8	00BF 00BF 00BF	NEXT_TEST STP2: MOVL #2,W^CURRENT_TC	
072B°CF			0006 0008 00EF 345	PUSHL #0 CALLS #1, W^REG_SAVE \$CREPRC_S PIDADR = W^PRVAND_SXV42 : try it FAIL_CHECK_SS\$_ACCVIO : check_fair PUSHL #SS\$_ACCVIO	lure
0735°CF	0C 01	DD FB	00F1 00F6 00F6 347 00F6 348 00F6 350 00F6 351 00F6 00F6 00F6 00F6 00FB 00FB 0102 353 0126	test unaccessable IMAGE = page 0 access NEXT_TEST	
0008°CF	03	00	00F 6 00F 6	STP3: MOVL #3,W^CURRENT_TC	
072B°CF	03 00 01	DO DD Fd	00FB 00FD 0102 352 0126 353	PUSHL #0 CALLS #1.W^REG_SAVE \$CREPRC_S IMAGE = W^PRVHND_SXV40 : try page { FAIL_CHECK_SS\$_ACCVIO : check_fair PUSHL #SS\$_ACCVIO	O access
	00	DD	0126	PUSHL #SS\$_ACCV10	

SAT

SSS BUILDING CONTROL OF THE CONTROL OF T

SATSSF18 V04-000

PUSHL

CALLS

#1, WAREG_SAVE

072B'CF

SAT

UN UN UN WAF HOP

0735°CF	0C 01	DD FB	01DE 0202 0202 0204	384 385		\$CREPRC_S OUTPUT = W^PRVHND_SXV40 FAIL_CHECK SS\$_ACCVIO PUSHL #SS\$_ACCVIO CALLS #1, W*REG_CHECK	; try it ; check failure	
			0209 0209 0209 0209 0209 0209	386 387 388 389 390 391	test	unaccessable OUTPUT = noaccess protect NEXT_TEST		
0008'CF	08	DO	0209		STP8:	MOVL #8,W^CURRENT_TC		
072B'CF	08	DO DD FB	020E 0210 0215 0239	392 393		PUSHL #0 CALLS #1,W^REG_SAVE \$CREPRC_S OUTPUT = W^PRVHND_SXV42 FAIL CHECK_SS\$ ACCVIO	; try it ; check failure	
0735'CF	0C 01	DD FB	023B	70/		PUSHL #SS\$_ACCVIO CALLS #1,WREG_CHECK		
			0240 0240 0240 0240 0240 0240 0245 02247 02270	394 395 396 397 398 399	test	unaccessable ERROR = page 0 access NEXT_TEST		
0008°CF	09	0.0	0240		STP9:	MOVL #9.W^CURRENT_TC		
072B'CF	09 00 01	DO DD FB	0245 0247 0240 0270	400 401		PUSHL #0 CALLS #1.W^REG_SAVE \$CREPRC_S ERROR = W^PRVHND_SXV40 FAIL_CHECK_SS\$_ACCVIO	; try it ; check failure	
0735°CF	0C 01	DD FB	0270			PUSHL #SS\$ ACCVIO CALLS #1, W*REG_CHECK		
	•	,,,	0277 0277 0277 0277 0277 0277 0277 0277	402 403 404 405 406 407	test	unaccessable ERROR ≈ noaccess protect		
			0277 0277	407		NEXT_TEST		
0008°CF	OA	DO	0277		STP10:	MOVL #10, W^CURRENT_TC		
072B'CF	0A 00 01	DO DD FB	027C 027E 0283 02A7	408		MOVL #10, W^CURRENT_TC PUSHL #0 CALLS #1, W^REG_SAVE \$CREPRC_S ERROR = W^PRVHND_SXV42 FAIL_CHECK_SSS_ACCVIO PUSHL #SSS_ACCVIO CALLS #1, W*REG_CHECK	; try it ; check failure	
0735°CF	0C 01	DD FB	02A7 02A9 02AE		;+	PUSHL #55\$ ACCVIO CALLS #1, W*REG_CHECK		
			02AE 02AE 02AE 02AE 02AE 02AE 02AE	412	test	unaccessable PRVADR = page 0 access		
			OSAE	413 414 415	:-	NEXT_TEST		
			OZAE		STP11:			

SATSSF18 V04-000

SA'

SA! ROI RW! SA' SA'

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SATSSF18 V04-000			- SA	TS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 01:42:11 VAX/VMS Macro V04-00 Page RC TESTS S-SEP-1984 04:22:29 [UETP.SRC]SATSSF18.MAR;1	13
	0008°CF	0B 00 01	DD FB	02AE MOVL #11.W^CURRENT_TC	
	0728'CF	01	FB	Q2B) CALLS #1.W^REG_SAVE	
		00	DD	OZDE 417 FAIL_CHECK SSS_ACCVIO : check failure	
	0735'CF	0C 01	FB		
				02E5 419 : 02E5 420 : test unaccessable PRVADR = noaccess protect	
				02E5 421 : 02E5 422 :-	
				025	
	0008°CF	00	DO	02E5 STP12: MOVL #12,W^CURRENT_TC	
	072B'CF	0C 00 01	DO DD FB	OZEC CALLS #1, WAREG SAVE	
		00	DD.	02E5 02E5 02EA 02EC 02F1 02F1 0315 0425 0317 031C 031C 031C 0426 0427 051C 051C 051C 051C 051C 051C 051C 051C	
	0735°CF	0C 01	FB	0317 CALLS #1, W*REG_CHECK	
				031C 427; 031C 428; test unaccessable QUOTA = page 0 access	
				031C 426 :+ 031C 427 : 031C 428 : test unaccessable QUOTA = page 0 access 031C 429 : 031C 430 :- 031C 431 NEXT_TEST	
				0310	
	0008°CF	OD	DO	031C STP13: MOVL #13,W^CURRENT_TC	
	072B'CF	0D 00 01	DO DD FB	031C	
		06	00	0328 432 SCREPRC S QUOTA = W^PRVHND_SXV40 ; try it 034C 433 FAIL_CHECK SSS_ACCVIO ; check failure	
	0735°CF	0C 01	DD FB	034E CALLS #1, W*REG_CHECK	
				0353 434 + 0353 435 0353 436 test unaccessable QUOTA = noaccess protect 0353 438 - 0353 439 NEXT_TEST	
				0353 437 :-	
				055	
	0008°CF	0E	DO	0353 STP14: MOVL #14,W^CURRENT_TC	
	072B'CF 01FF'CF	0E 00 01 01	DD FB 90	0358 PUSHL #0 CALLS #1, WAREG SAVE	
	OIFF'CF	01	90	035F 440 MOVB #PQL\$ ASTLM, W^PRVHND SXV42 ; set an initial quota in the fi 0364 441 \$CREPRC \$ QUOTA = W^PRVHND SXV42 ; try it 0388 442 FAIL CHECK SS\$ ACCVIO ; check failure	rst
	0775165	0C 01	DD FB	0388 FAIL_CHECK SSS_ACCVIO ; check tailure 0388 PUSHL #SSS_ACCVIO	
	0735°CF	UI	18	0353	
				038F 444 : 038F 444 : test unaccessable PRCNAM = page 0 access 038F 446 :	

			038F 447 :- NEXT TEST	VAX/VMS Macro V04-00 [UETP.SRC]SATSSF18.MAR;1
0008°CF 072B°CF	0F 00 01	DO DD FB	038F 038F 038F 039C 0396 039B 039B 039B 03BF 03BF 03BF 03BF 03BF 03CT 03CT 03BF 03CT 03BF 03CT 03CT 03BF 03CT 03CT 03BF 03CT	; try it ; check failure
0735°CF	0C 01	DD FB	03C1 CALLS #1.WREG CHECK	; check failure
0008°CF 072B°CF	10 00 01 00 01	DO DD FB	03C6 451 03C6 452 03C6 453 03C6 454 03C6 455 03C6 455 03C6 455 03C6 456 03C6 STP16: MOVL #16,W^CURRENT_TC PUSHL #0 CALLS #1,W^REG_SAVE 03CB FAIL_CHECK SSS_ACCVIO PUSHL #SSS_ACCVIO CALLS #1,W^REG_CHECK 03FB 459 03FD 460 03FD 461 03FD 463 03FD 53FD 463 03FD 53FD 53FD 53FD 53FD 53FD 53FD 53FD 5	; try it ; check failure
0008°CF 0728°CF 00000154 0735°CF	11 00 01 8F 01	DO DD FB	0402 0404 0409 0409 0409 0409 0409 0409	: try it ; check failure
0008°CF 072B°CF 00000164 0735°CF	12 00 01 8F 01	DO DD FB	0438 467 0438 469 0438 470 0438 471 0438 472 0438 0438 0438 0438 0438 0438 0438 0438 0438	; try it ; check failure

SATSSF18 V04-000			- SA	ATS SYST	EM SERVICE TESTS (FAILING S. 16-SEP-1984 01:42:11 VAX/VMS Macro V04-00 PASSEP-1984 04:22:29 [UETP.SRC]SATSSF18.MAR;1	age 15 (2)
				0473 0473 0473 0473	476 : test SS\$_IVSTSFLG 478 :- 479 :- 480	
	0008°CF	13 00 01	00 00 FB	0473 0473 0473 0473 0474 0474 0475 0475 0476 0476 0476 0476 0476 0476 0476 0476	STP19:	
	0000017C 0735'CF	8F 01	DD FB	04A3 04A3 04A9 04AE	PUSHL #0 CALLS #1, WREG_SAVE 481	
				04AE 04AE 04AE 04AE	483 + 484 : test SS\$_NOPRIV	
	0008°CF	14 00 01	DO DD FB	04AE 04AE 04AE 04B3 04B5	STP20: MOVL #20, W^CURRENT_TC PUSHL #0	
	0735°CF	24 01	DD FB	04DE 04E0 04E5	CALLS #1, W*REG_SAVE \$CREPRC_S STSFLG = W*STSFLG1 ; try it 490	
				04E5 04E5 04E5 04E5	491 492 493 test SSS_DUPLNAM 494 495 - 496 NEXT_TEST	
	0008°CF	15	00	04E5 04E5 04E5 04EA 04EC	STP21: MOVL #21,W^CURRENT_TC	
	072B'CF	15 00 01	00 00 FB	0411	CALLS #1, W^REG_SAVE 497	
	0735°CF	01	DD FB	04F1 04F1 051B 051B	PUSHL #SS\$ NORMAL ; CHECK SUCCESS	
				0518 0510 0522 0546 0546 0541	CALLS #1, WREG CHECK 502	
	00000094 0735 CF	01	f B	054C 0551	CALLS #1, W*REG_CHECK SWAKE_S PIDADR = W*PID1 ; cause process termination	

	- SATS	YSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 ESTS 5-SEP-1984	01:42:11 VAX/VMS Macro V04-00 Page 04:22:29 [UETP.SRC]SATSSF18.MAR;1	10
	05	SBTTL SETPRV TESTS 507 508 SSETPRV tests		
	ŎŚ	\$09 SSETPRV tests		
	ŎŚ	\$11 test unaccessable PRVADR = page 0	access	
	05 05	Si3 :- 514 NEXT_TEST		
0008°CF 16	05	STP22: MOVL #22.W^CURREN	7 76	
0008°CF 16 00 0728°CF 01	DO 055 DD 056 FB 056 DE 056	PUSHL #0	9	
0137'CF 0038'CF	DE 05	CALLS #1 WAREG SAVI 515 MOVAL WASETPRV, WASERV NAME 516 \$SETPRV S PRVADR = WAPRVHND S 517 FAIL CHECK SS\$ ACCVIO	; set service name	
OC	058	517 FAIL_CHECK SS\$ ACCVIO PUSHL #SS\$ ACCVIO	SXV40 ; try it ; check failure	
0735'CF 01	DD 051 FB 051	FALLS #1 HTDEG CHE	CK	
	051 051 051 051	518 + 519 : 520 : test unaccessable PRVADR = noacces: 521 : 522 - 523 NEXT_TEST	s protect	
	058 058	521 522 -		
	058			
0008°CF 17	DO 058	STP23: MOVL #23,W^CURREN	T_TC	
0728°CF 01	DO 051 DD 051 FB 059	PUSHL #0 CALLS #1,WAREG SAVI	E A A A A A A A A A A A A A A A A A A A	
00	DD 05/	5 525 FAIL_CHECK SS%_ACCVIO	SXV42 ; try it ; check the failure	
0735°CF 01	FB 05/	CALLS #1.W*REG_CHE	CK	
	05/	526 :+ 527 : 528 : test unaccessable PRVPRV = page 0 : 529 : 530 :- 531 NEXT_TEST	access	
	05/	\$29 \$30 :-		
	05/ 05/ 05/ 05/ 05/ 05/ 05/ 05/ 05/ 05/	531 NEXT_TEST		
0008°CF 18	DO 05/	STP24: MOVL #24,W^CURRENT	T_TC	
0008°CF 18 00 0728°CF 01	DO 05/ DD 056 FB 056	PUSHL #0 CALLS #1,WAREG_SAVE		
	05E 05	PUSHL #0 CALLS #1, WAREG SAVE 532	SXV40 ; try it ; check failure	
0735'CF 01	DD 050 FB 050 051		CK	
	051	534 + 535 :	A	
	051 051	534 535 536 test unaccessable PRVPRV = read-on 537 538 - NEXT_TEST	ty psect	
	051 051 051 051	538 ;- 539 NEXT_TEST		
	05	STP25:		

		- SA	TS SYST	EM SERVICE	TESTS (FAILING S.	16-SEP-1984 01:42:11 5-SEP-1984 04:22:29	VAX/VMS Macro VO4-00 [UETP.SRC]SATSSF18.MAR;1	Page	17 (2)
0008°CF	19 00 01	DO DD FB	05D1 05D6		MOVL #	25, W^CURRENT_TC			
072B'CF	01	FB	0508	540	CALLS #	1.WAREG SAVE	. eeu de		
0735°CF	0¢ 01	DD F8	05EE 05EE 05F0 05F5	540 541 542 :+	MOVL PUSHL P	CVIO SS\$_ACCVIO 1,W*REG_CHECK	; try it ; check failure		
			05F5 05F5	544 tes	unaccessable PRVPR	V = noaccess protect			
			05F5 05F5	544 tes 545 546 - 547	NEXT_TEST				
0008°CF	1A	DO	05F5 05F5	STP26	MOVL #	26,W^CURRENT_TC			
072B'CF	1 A 00 01	DO DD FB	05FA 05FC	e / 8	DIICHI	n –			
0735°CF	0C 01	DD FB	0601 0612 0612 0614	548 549	\$SETPRV S PRVPRV FAIL_CHECK SS\$_ACTOR PUSHL # CALLS	= U-PRVHND_SXV42 CVIO SS\$_ACCVIO 1,W*REG_CHECK	; try it ; check failure		

SATSSF18 V04-000

SA VO

53

72 6E 2E 77

43

32 33 33

32 33

```
069E
069E
069E
                                                  594
                                                                    NEXT_TEST
                                                        STP29:
              0008 CF
                                                                               MOVL
                                                                                          #29,W^CURRENT_TC
                                   DD
FB
D7
                                                                               PUSHL
                                                                               CALLS
W^DEPTH
              0728'CF
                                                                                          #1, WAREG_SAVE
                     0143'CF
                                                                    DECL
                                                                                                                            ; set to a legal depth
; put a call frame on the stack
                                                  59678
5978
5990
6001
6005
6006
6007
6008
                 B2'AF
                                   F8
                                                                               #0,B^10$
                                                                    CALLS
                                                        105:
                                0000
                                                                    WORD
                                                                              B^20$,(FP)
                                   DE
                                                                    MOVAL
                                                                                                                            ; set the handler address
                            00
                                                                    CHMU
                                                                                                                            : cause an exception
                                                        205:
                                0004
                                                                    . WORD
                                                                               ^M<R2>
                                   DO
                 52
                        04
                                                                               CHF$L_SIGARGLST(AP),R2
                                                                    AVOM
                                                                                                                              get the signal array address
                                                                    PUSHL
                                                                                                                              push a dummy parameter
                                                                   CALLS #1, WAREG_SAVE
SUNWIND S DEPADR = WADEPTH, NEWPC = BA30S
CMPL #SS$_UNWIND, BACHF$L_SIG_NAME(R2)
                            01
              072B 'CF
                                   FB.
                                                                                                                              save a reg snapshot
                                                                                                                             ; do it
                                   D1
13
D4
    04 A2
               00000920
                           8F
                                         06D
                                                                                                                             ; are we unwinding? br if yes
                                         OGDD
                                                                    BEQL
                                         06DF
                                                                    CLRL SFSL SAVE FP(FP)
FAIL_CHECK SSS_NORMAL
                                                                                                                              disable the handler check failure
                        OC BD
                                                                               PUSHL
                           01
                                   DD
                                                                              CALLS #1, WREG_CHECK
B^20$, asf$L_save_fp(fp)
17$
                                                                                          #SS$_NORMAL
                                   FB
DE
11
              0735 CF
            OC BD
                        CE
                           AF
13
                                                                    MOVAL
                                                                                                                            ; enable the handler
                                                  612
613 15$:
                                                                   BRB
                                                                                                                            ; continue in common
                                                  614
                                                                   CLRL SSF$L SAVE FP(FP)
FAIL CHECK SS$ UNWINDING
                        OC BD
                                   04
                                                                                                                            ; disable the handler ; check failure
                                   DD
FB
DE
                                                                              PUSHL
               00000928 8F
                                                                                          #SS$ UNWINDING
                                                                              CALLS #1.W*REG_CHECK
B*208, asf$L_save_fp(fp)
             0735 CF
                           01
                                         06F
                       B9 AF
            OC BD
                                                  616 617 178:
                                                                   MOVAL
                                                                                                                            : enable the handler
                                   04
                                                  618
619
                                                                   RET
                                                                                                                            ; giver heck
                                                        305:
                                                       : +
                                                  620
621
622
623
624
625
626
                                                           Testing SS$_ACCVIG will not be done because of the hostile results
                                                           that can occur from intentionally corrupting the STACK.
                                                                   TEST_END
                                                                                                                            : thats all folks
                                                                                          WATMD_ADDR
WATMN_ADDR
                     0050°CF
                                                                              PUSHL
                                   DD
DD
                     004C CF
                                                                               PUSHL
                                                                              PUSHL
                                                                                          W^MOD_MSG_CODE
#$$T1.G^LIB$SIGNAL
#1.#STS$V_INHIB_MSG,#1,W^MOD_MSG_CODE
W^MOD_MSG_CODE
#1,G^SYS$EXIT
                                   DD
FB
FO
                     0048
                                                                              PUSHL
        00000000 GF
                                                                               CALLS
0048 CF
                            01
              01
                                                                               INSV
                     0048
                                   DD
                                                                              PUSHL
        00000000 GF
                            01
                                                                              CALLS
```

```
- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 01:42:11 REG_SAVE 5-SEP-1984 04:22:29
SATSSF18
V04-000
                                                                                                                                         VAX/VMS Macro V04-00
[UETP.SRC]SATSSF18.MAR;1
                                                                     .SBTTL REG_SAVE
                                                                       FUNCTIONAL DESCRIPTION:
                                                                                 Subroutine to save R2-R11 in the register save location.
                                                                        CALLING SEQUENCE:
                                                                                 PUSHL
                                                                                                                    : save a dummy parameter
                                                                                          #1,WAREG_SAVE
                                                                                 CALLS
                                                                                                                    : save R2-R11
                                                                        INPUT PARAMETERS:
                                                                                 NONE
                                                                        OUTPUT PARAMETERS:
                                                                                 NONE
                                                                     REG_SAVE:
                                                                                            ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
#4*10,^X14(FP),W^REG_SAVE_AREA ; save the registers in the program
                                                                                 . WORD
              000C ° CF
                             14 AD
                                                                                 MOVC3
                                                                                 RET
                                                                                 .SBTTL REG_CHECK
                                                                       FUNCTIONAL DESCRIPTION:
                                                                                Subroutine to test RO & R2-R11 for proper content after a service execution. A snapshot is taken by the REG SAVE routine at the beginning of each step and this routine is executed after the
                                                               655
656
657
658
665
666
666
666
666
666
667
668
670
                                                                                 services have been executed.
                                                                       CALLING SEQUENCE:
PUSHL #SS$_XXXXXXX ; push expected R0 contents
CALLS #1,W*REG_CHECK ; execute this routine
                                                                        INPUT PARAMETERS:
                                                                                expected RO contents on the stack
                                                                        OUTPUT PARAMETERS:
                                                                                possible error messages printed using $PUTMS6
                                                                     REG_CHECK:
                                                                                            ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
4(AP),R0 : is
                                                                                  WORD
                                                                                                                                             is this the right fail code?
br if yes
                                                                                 CMPL
                                                                                            10$
R0
                                                                                 BEQL
                                                                                                                                             push received data
push expected data
                                                               673
674
675
676
677
678
681
682
683
684
                                                                                 PUSHL
                                                                                 PUSHL
                                                                                            4(AP)
                                                                                 PUSHAL
                                                                                                                                            push the string variable print the error message
                                                                                            W^EXP
                          077D CF
                                                                                            #3, WAPRINT FAIL
                                                                                 CALLS
                                                                     105:
              000C CF
                                               29
13
C3
C6
81
CA
                                                                                 CMPC3
                                                                                            #4+10, "X14(FP), W"REG_SAVE_AREA
                                                                                                                                             check all but RO br if O.K.
                                                                                 BEQL
SUBL 3
                           00000000
                                                                                            #REG_SAVE_AREA,R3,R6
                                                                                                                                          ; calculate the register number
                                                                                            #4,R6
#^X2,R6,W^REGNUM
#3,R1
#3,R3
                                 56
56
51
53
                                                                                 ADDB3
                   00D3'CF
                                                                                                                                             put it in the string
                                                                                 BICLZ
                                                                                                                                             backup to register boundry
```

SA

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- SATS SYSTEM SERVICE TESTS (FAILING S. 16-SEP-1984 01:42:11 5-SEP-1984 04:22:29
SATSSF18
V04-000
                                                                                                                                 VAX/VMS Macro V04-00
[UETP.SRC]SATSSF18.MAR:1
                                                                                                                                                                               21 (2)
                                                                                                                                                                       Page
                                            DD
DD
DF
                               00D3 CF
                                                                                       W^REGNUM
                                                                            PUSHL
                                                           push register number
                                                                                       (R1)
(R3)
                                                                            PUSHL
                                                                                                                                     push received data
                                                                            PUSHL
                                                                                                                                     push expected data
                                                                                                                                    set string pntr param.
                               00C1
                                                                            PUSHAL
                                                                                       WAREG
                        0770'CF
                                             FB
                                                                            CALLS
                                                                                       #4, W^PRINT_FAIL
                                                                                                                                    print the error message
                                                                 20$:
                                             04
                                                                            .SBTTL PRINT_FAIL
                                                                   FUNCTIONAL DESCRIPTION:
                                                                            Subroutine to report failures using $PUTMSG
                                                                    CALLING SEQUENCE:
                                                                                       PUSHL EXPECTED PUSHL RECEIVED
                                                                                                                                  PUSHL REG NUMBER PUSHL EXPECTED
                                                                    Mode #1
                                                                                       FUSHAL STRING VAR
CALLS #3, W PRINT_FAIL
                                                                                                                                  PUSHL RECEIVED
                                                                                                                                  PUSHAL STRING VAR
                                                                                                                                   CALLS #4, WAPRINT_FAIL
                                                                    INPUT PARAMETERS:
                                                                            listed above
                                                                    OUTPUT PARAMETERS:
                                                                            an error message is printed using $PUTMSG
                                                                 PRINT_FAIL:
                                                                                      ^M<R2,R3,R4,R5>
W^CS1,W^MESSAGEL,W^MSGL,WTEST_MOD_NAME,W^SERV_NAME,W^CURRENT_TC
<#UETP$_TEXT,W1,WMESSAGEL>
; print the message
(AP),W4
; is this a register message?
                                          003C
                                                                             WORD
                                                                            SFAO S
                                                                            PUTMSG
                                            91
                               04
                                     6C
21
                                                                            CMPB
                                                                                       105
                                                                            BEQL
                                                                            SFAO_S
                                                                                       W^CS2, W^MESSAGEL, W^MSGL, 4(AP), 8(AP), 4(AP), 12(AP)
                                                                                       20$
                                      25
                                            11
                                                                            BRB
                                                                                                                                  ; goto output message
                                                  07DB
                                                           720
721
722
723
724
725
726
                                                                 105:
                                                                            SFAO_S
                                                                                       W^CS3,W^MESSAGEL,W^MSGL,4(AP),16(AP),8(AP),4(AP),16(AP),12(AP)
                                                  0800
0800
0815
                                                                 205:
                                                                                                                                  ; print the message ; set failure message address ; set severity code
                                                                                       <#UETP$ TEXT, #1, #MESSAGEL>
W^TEST_MOD_FAIL, W^TMD_ADDR
                                                                            PUTMSG
                 0050°CF
                               002A CF
                                                                            MOVAL
                                            F0
04
                                                  081C
0823
          0048 CF
                        03
                                     02
                                                                                       #ERROR, #0, #3, W^MOD_MSG_CODE
                               00
                                                                            INSV
                                                                            RET
```

48 40 40

SA

5F

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00 45

2E 45

7,

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> 30 30

50 48

30

46

30 46

44

SA

32 2A

44

20

32 2A

20

50

20

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SATSSF18 V04-000

SATSSF18 Symbol table	- SATS SYSTEM	SERVICE TE	STS (FAILING S. 1	6-SEP-1984 01:42:11 5-SEP-1984 04:22:29	VAX/VMS Ma	cro V04-00 SATSSF18.MAR;1	Page	23 (2)
S\$ARGS = S\$T1 = S\$T2 = BUF CHF\$L_SIGARGLST = CHMRTN CHM_CONT CRE CREPRC	00000004 000000005 00000004 00000004 00000083A R 0000005D R 00000069 R	03 06 03 03 02	PQLS_WSDEFAULT PQLS_WSQUOTA PRINT_FAIL PRIVMASK PRIVS PROT PRT\$C_NA PRVHND_SXV40 PRVHND_SXV41 PRVHND_SXV42 PRVPRT	= 000 = 000 000 000 000 000 000 000 = 000	0000B 0000A 00077D R 00055 R 00013B R 0004E R ***** X	06 03 03 02 02 02		
CREPRC CREPRC BASPRI = CREPRCS ERROR = CREPRCS IMAGE = CREPRCS IMPUT = CREPRCS IMBXUNT = CREPRCS MBXUNT = CREPRCS NARGS = CREPRCS OUTPUT = CREPRCS PIDADR = CREPRCS PROMAM = CREPRCS PROMAM = CREPRCS PROMAM = CREPRCS	00000014 00000008 00000000C 00000034 00000000 00000000 00000000 00000004 000000		QUOTA_LIST REG REGNUM REG_CHECK REG_SAVE REG_SAVE_AREA RET_ADR	000 000 000 000 000 000 000 000 000	***** X 000001 000052 R 00015F R 000112 R 000113 R 000113 R 000735 R 000735 R 000735 R 000737 R 000061 R 000061 R 000000 RG 000137 R 000038 R	02 03 02 03 03 06 03 06 03 03		
CS2 CS3 CURRENT_TC DEPTH EMPTY ERROR EXP GET_LIST IMAGE_NAME	00000028 00000052 R 00000084 R 00000008 R 000000143 R 000000000 R 000000002 00000002	02 02 03 03 04 02 02	SERV_NAME SET SETPRV SETPRV\$_ENBFLG SETPRV\$_NARGS SETPRV\$_PRMFLG SETPRV\$_PRVADR SETPRV\$_PRVPRV SEVERE SF\$L_SAVE_FP SHR\$K_SHRDEF SHR\$K_SHRDEF SHR\$ TEXT SS\$_ACCVIO SS\$_DUPLNAM	= 000 = 000 = 000 = 000	00004 0000C 00001 01130 0000C	02		
INADR INFO JPIS CURPRIV LIBSSIGNAL MESSAGEL MOD_MSG_CODE MOD_MSG_PRINT MSGE NAME_CREO NAME_CREO NAME_CREPRC NOACCESS	00000046 R 00000003	06 03 03 06 03 02 02 02 05	SSS_INSFRAME SSS_IVLOGNAM SSS_IVQUOTAL SSS_IVSTSFLG SSS_NOPRIV SSS_NORMAL SSS_NOSIGNAL SSS_UNWIND SSS_UNWIND SSS_UNWINDING STEP	= 000 = 000 = 000 = 000 = 000 = 000 = 000	0012C 00154 00164 0017C 00024 00001 00900 00920	06		
NOACCESS PID1 PQL\$ ASTLM PQL\$ BIOLM PQL\$ CPULM PQL\$ DIOLM PQL\$ FILLM PQL\$ LISTEND PQL\$ PGFLQUOTA PQL\$ PRCLM PQL\$ TQELM =	00000000 00000007 00000008	03	STP1 STP10 STP11 STP12 STP13 STP14 STP15 STP16 STP17 STP18 STP19 STP19 STP2	000 000 000 000 000 000 000 000	0001D 0003D R 00088 R 00277 R 002AE R 002E5 R 0031C R 00353 R 00356 R 003FD R 00438 R 00473 R	06 06 06 06 06 06 06 06 06 06 06		

SAT VO4

SAT VO4

SAT VO4

! Psect synopsis !

PSECT name	Allocation			PSECT	No.	Attribu	ites								
ABS . SABS\$ RODATA RWDATA SATS_ACCVIO_1 SATS_ACCVIO_2 SATSSF18	00000000 0000000 00000187 0000014B 00000200 00000200	((39 (33 (51 (51 (211	0.) 0.) 1.) 1.) 2.) 2.)	00 (01 (02 (03 (04 (05 (0.)	NOPIC NOPIC NOPIC NOPIC NOPIC NOPIC	USR USR USR USR USR USR	CON CON CON CON CON CON	ABS REL REL REL REL	NOSHR NOSHR NOSHR	NOEXE	NORD RD RD RD RD RD RD	WRT NOWRT WRT WRT	NOVEC NOVEC NOVEC	BYTE LONG LONG PAGE PAGE

Performance indicators

Phase	Page faults	CPU Time	Elapsed Time
Initialization	.37	00:00:00.09	00:00:00.32
Command processing	138 403	00:00:00.69	00:00:03.02
Symbol table sort	0	00:00:01.41	00:00:02.68
Symbol table output	232	00:00:03.69	00:00:09.78
Psect synopsis output Cross-reference output	6	00:00:00.04	00:00:00.11
Assembler run totals	845	00:00:21.54	00:00:52.71

The working set limit was 900 pages.
97103 bytes (190 pages) of virtual memory were used to buffer the intermediate code.
There were 50 pages of symbol table space allocated to hold 939 non-local and 12 local symbols.
759 source lines were read in Pass 1, producing 32 object records in Pass 2.
48 pages of virtual memory were used to define 42 macros.

! Macro library statistics !

Macro library name	Macros define
_\$255\$DUA28:[UETP.OBJ]UETP.MLB;1 _\$255\$DUA28:[SYS.OBJ]LIB.MLB;1 _\$255\$DUA28:[SYSLIB]STARLET.MLB;2 TOTALS (all libraries)	10 0 29 39

1154 GETS were required to define 39 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SATSSF18/OBJ=OBJ\$:SATSSF18 MSRC\$:SATSSF18/UPDATE=(ENH\$:SATSSF18)+EXECML\$/LIB+LIB\$:UETP/LIB

0410 AH-BT13A-SE

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